CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/KVSR/CEMENT/2012-13

Date: 03.01.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. K.V. Sudhakar Reddy**, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Anganawadi building at Kodigehalli in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/KG/WO/342/2012-13 Dated: 02.01.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

Note:

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Job No.: CTCE/BBMP/W.No.08/KVSR/SAND/2012-13 : 03.01.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. K.V. Sudhakar Reddy,** Contractor, Bangalore.

Name of Work : Construction of Anganawadi building at Kodigehalli in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KG/WO/342/2012-13 Dated: 02.01.2013

Date of Testing : 03.01.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	107	5.35	5.35	94.7	90-100
2.36	212	10.60	15.95	84.1	75-100
1.18	516	25.80	41.75	58.3	55-90
600 Micron	422	21.10	62.85	37.2	35-59
300 Micron	486	24.30	87.15	12.9	8-30
150 Micron	215	10.75	97.90	2.1	0-10

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/KVSR/AGG/2012-13 : 03.01.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. K.V. Sudhakar Reddy,** Contractor, Bangalore.

Name of Work : Construction of Anganawadi building at Kodigehalli in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KG/WO/342/2012-13 Dated: 02.01.2013

Date of Testing : 03.01.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	985	3.94	3.94	96.06	95-100
20	15240	60.96	64.90	35.10	30-70
10	5825	23.30	88.20	11.80	10-35
4.75	2580	10.32	98.52	1.48	0-5

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/KVSR/STEEL/2012-13 03.01.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Malleshwaram Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K.V. Sudhakar Reddy**, Contractor, Bangalore.
Name of the work	:	Construction of Anganawadi building at Kodigehalli in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/KG/WO/342/2012-13 Dated: 02.01.2013
Date of Test	:	03.01.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	548	12.95	O.K	O.K

Note:

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Job No.: CTCE/BBMP/W.No.08/KVSR/STEEL/2012-13 03.01.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Malleshwaram Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K.V. Sudhakar Reddy**, Contractor, Bangalore.
Name of the work	:	Construction of Anganawadi building at Kodigehalli in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/KG/WO/342/2012-13 Dated: 02.01.2013
Date of Test	:	03.01.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	552	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.08/KVSR/STEEL/2012-13 03.01.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Malleshwaram Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K.V. Sudhakar Reddy**, Contractor, Bangalore.
Name of the work	:	Construction of Anganawadi building at Kodigehalli in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/KG/WO/342/2012-13 Dated: 02.01.2013
Date of Test	:	03.01.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	556	13.45	O.K	O.K

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/KVSR/CUBE/2012-13 24.02.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. K.V. Sudhakar Reddy,** Contractor, Bangalore.
Name of the work	: Construction of Anganawadi building at Kodigehalli in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/KG/WO/342/2012-13 Dated: 02.01.2013
Sample ID	: Roof Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.01.2013	24.02.2013	8.364	483.6	21.49
2	27.01.2013	24.02.2013	8.572	524.8	23.32
3	27.01.2013	24.02.2013	8.496	516.3	22.95

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/KVSR/CEMENT/2012-13

Date: 21.10.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. K.V. Sudhakar Reddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Anganawadi building at Kodigehalli in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/KG/WO/342/2012-13 Dated: 02.01.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	25.50 %	-

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Job No.: CTCE/BBMP/W.No.08/KVSR/SAND/2012-13 : 21.10.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. K.V. Sudhakar Reddy,** Contractor, Bangalore.

Name of Work : Construction of Anganawadi building at Kodigehalli in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KG/WO/342/2012-13 Dated: 02.01.2013

Date of Testing : 21.10.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	4.90	4.90	95.1	90-100
2.36	216	10.80	15.70	84.3	75-100
1.18	527	26.35	42.05	58.0	55-90
600 Micron	413	20.65	62.70	37.3	35-59
300 Micron	492	24.60	87.30	12.7	8-30
150 Micron	205	10.25	97.55	2.4	0-10

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Job No.: CTCE/BBMP/W.No.08/KVSR/CUBE/2012-13 26.11.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. K.V. Sudhakar Reddy,** Contractor, Bangalore.
Name of the work	: Construction of Anganawadi building at Kodigehalli in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/KG/WO/342/2012-13 Dated: 02.01.2013
Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.10.2013	26.11.2013	8.294	486.5	21.62
2	29.10.2013	26.11.2013	8.375	512.3	22.77
3	29.10.2013	26.11.2013	8.462	525.8	23.37

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